



SEQUENCE LISTING

<110> Japan as Represented by Director General of Okazaki National Research
Institutes

<120> Nav2 channel gene-deficient non-human animals

<130> U2001P059

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<150> JP 2000/237320

<151> 2000-08-04

<150> JP 2000/241637

<151> 2000-08-09

<150> JP 2001/222263

<151> 2001-07-23

<160> 8

<170> PatentIn Ver. 2.1

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<212> DNA

<213> Rattus norvegicus

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Phe Phe Arg Val Trp Asn Arg Phe Asp Pro Asp Arg Thr Gln Tyr Ile			
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gac tct agc aag ctt tct gat ttt gca gct gct ctg gat cct cct ctt			4898
Asp Ser Ser Lys Leu Ser Asp Phe Ala Ala Ala Leu Asp Pro Pro Leu			
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ttc atg gca aaa cca aac aag ggc cag ctt gtg gcc atg gat ctc ccc			4946
Phe Met Ala Lys Pro Asn Lys Gly Gln Leu Val Ala Met Asp Leu Pro			
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atg gct gcg gga gac aga atc cac tgc ctc gac att tta ctt gcc ttt			4994
Met Ala Ala Gly Asp Arg Ile His Cys Leu Asp Ile Leu Leu Ala Phe			
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acg aaa aga gtg atg gga aag gat gag agg gtg gag aaa atc ctt tca			5042
Thr Lys Arg Val Met Gly Lys Asp Glu Arg Val Glu Lys Ile Leu Ser			
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gag ata gaa tcc ggg ttc atg tta gcg aac cct ttc aaa atc act tat			5090
Glu Ile Glu Ser Gly Phe Met Leu Ala Asn Pro Phe Lys Ile Thr Tyr			
1600	1605	1610	
gag ccg att aca act act ttg aaa cgc aaa caa gag gca gtt tca gca			5138
Glu Pro Ile Thr Thr Thr Leu Lys Arg Lys Gln Glu Ala Val Ser Ala			
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acc atc atc cag cgt gca tat aaa agc tac cgc tta agg caa aat gac			5186
Thr Ile Ile Gln Arg Ala Tyr Lys Ser Tyr Arg Leu Arg Gln Asn Asp			
1630	1635	1640	1645
aag aat gta tca gat act cct gct ata gat gac cgc aga gat gat ctt			5234

Lys Asn Val Ser Asp Thr Pro Ala Ile Asp Asp Arg Arg Asp Asp Leu
1650 1655 1660

act tct aaa ggt gct cac tct ggc aaa atc gag gag aag gca tct att 5282
Thr Ser Lys Gly Ala His Ser Gly Lys Ile Glu Glu Lys Ala Ser Ile
1665 1670 1675

cag acc cag att taa tgacacttcc cactttctact ttctttacat atgtccccaa 5337
Gln Thr Gln Ile
1680

gcactaaatg ttaactgatac ttaagctgga gatcagaaac tagagataat gataacatct 5397

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35 40 45
Lys Arg Leu Pro Ile Pro Tyr Gly Thr Leu Pro Arg Gly Thr Val Ser
50 55 60
Glu Pro Leu Glu Asp Val Asp Pro Tyr Tyr Tyr Val Lys Arg Asn Thr
65 70 75 80
Phe Met Val Leu Asn Arg Ser Arg Val Ile Phe Arg Phe Asn Ala Val
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Ser Ile Phe Cys Thr Leu Ser Pro Leu Asn Ser Leu Arg Arg Ala Ala
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Ile Lys Ala Leu Val His Pro Leu Phe Arg Leu Leu Ile Leu Ile Ser
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Val Leu Thr Asp Ser Ile Leu Met Cys Met Ser Asn Leu Pro Glu Trp
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Leu Val Lys Val Ile Ala Arg Gly Ile Trp Ala Gly Ser Phe Ser Phe
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Gln Ser Ile Val Met Thr Leu Ala Gln Cys Leu Lys Lys Leu Phe Gly
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Ala Ile Ala Leu Ala Leu Phe Phe Leu Ala Val Phe Ser Leu Leu Gly
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Pro	Met	Ser	Glu	Glu	Leu	Arg	Ser	Leu	Leu	His	Val	Gly	Asn	Leu	Val	
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His	Pro	Tyr	Gly	Tyr	Phe	Gln	Ile	Ser	Trp	Asn	Ile	Phe	Asp	Ser	Ile	
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Leu	Ala	Val	Leu	Ile	Thr	Val	Pro	Leu	Ile	Phe	Ile	Lys	Leu	Gly	Lys	
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Tyr	Gly	Pro	Pro	Phe	Lys	Ser	Leu	Met	Arg	Ile	Leu	Gly	Ser	Ser	Leu	
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Met	Ala	Leu	Lys	Asp	Leu	Val	Leu	Leu	Leu	Cys	Ile	Phe	Val	Tyr	Phe	
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Ser	Ala	Val	Phe	Gly	Met	Lys	Leu	Phe	Gly	Arg	Ser	Tyr	Lys	Asp	Cys	
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Val	Cys	His	Ile	Lys	Glu	Asp	Cys	Gln	Pro	Gln	Arg	Trp	His	Met	Ser	
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Asp	Phe	Leu	His	Ala	Tyr	Met	Thr	Val	Phe	Arg	Ile	Leu	Cys	Gly	Glu	
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Cys	Ile	Pro	Phe	Tyr	Met	Met	Val	Ile	Leu	Ile	Gly	Asn	Leu	Leu	Ile	
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Thr	Ser	Glu	Val	Asn	Lys	Glu	Ala	Lys	Asn	Leu	Gln	Leu	Ala	Met	Ala	
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Arg	Ile	Lys	Ser	Gly	Ile	Asn	Ser	Met	Leu	Leu	Lys	Leu	Met	Cys	Thr	755	760	765
Glu	Arg	Ser	Val	Pro	Thr	Glu	Ala	Thr	Asp	Gln	Ile	Cys	Asp	Pro	Ser	770	775	780
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Pro	Val	Thr	Glu	Ser	Glu	Ser	Gln	Ser	Leu	Ile	Ala	Ser	Pro	Ser	Ala	820	825	830
Ser	Glu	Thr	Val	Pro	Ile	Ala	Ser	Gly	Glu	Ser	Asp	Ile	Glu	Asn	Leu	835	840	845
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Glu	Ser	Arg	Asn	Gly	Lys	Ile	Trp	Lys	Asn	Ile	Arg	Lys	Thr	Cys	Cys	915	920	925
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Lys	Ala	Phe	Phe	Ser	Asn	Asn	Trp	Tyr	Lys	Leu	Asp	Phe	Met	Val	Val	995	1000	1005
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Pro	Thr	Val	Ser	Val	Phe	Leu	Val	Cys	Leu	Met	Ile	Trp	Leu	Leu	Phe	1060	1065	1070
Ser	Val	Ile	Gly	Val	Gln	Leu	Phe	Ala	Gly	Lys	Phe	Tyr	Glu	Cys	Ile	1075	1080	1085
Asp	Pro	Thr	Lys	Gly	Glu	Arg	Phe	Pro	Val	Phe	Glu	Val	Met	Asn	Lys	1090	1095	1100
Ser	Gln	Cys	Glu	Lys	Leu	Leu	Phe	Asn	Glu	Ser	Met	Pro	Trp	Glu	Asn	1105	1110	1115
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Asp	Ser	Val	Gly	Val	Asn	Met	Gln	Pro	Ser	Phe	Glu	Tyr	Asn	Leu	Tyr	1155	1160	1165
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Leu	Cys	Met	Leu	Ile	Gly	Val	Ile	Ile	Arg	Asn	Phe	Asn	Lys	Gln	Lys	1185	1190	1195
Ile	Lys	Gln	Gly	Gly	Ser	Asn	Ile	Phe	Ile	Thr	Val	Lys	Gln	Lys	Lys	1205	1210	1215
Gln	Tyr	Arg	Ala	Leu	Lys	Lys	Leu	Leu	Tyr	Ala	Asp	Val	Gln	Lys	Pro			

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Ile Ser Tyr Phe Val Ser Tyr Ile Leu Ile Ser Trp Leu Ile Ile Val		
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